PATENT COOPERATION TREATY

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JUN 0 3 2005

DAVID S. RESNICK NIXON PEABODY LLP 100 SUMMER STREET

From the INTERNATIONAL SEARCHING AUTHORITY

NOTIFICATION OF TRANSMITTAL OF

BOSTON, MA 02110-2131		THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)		
L		Date of mailing (day/month/year)	01 JUN 2005	
70	oplicant's or agent's file reference 1039-54481	FOR FURTHER ACTION	See paragraphs 1 and 4 below	
PC	ternational application No. CT/US05/00714	International filing date (day/month/year) 10 January 2	2005 (10.01.2005)	
	pplicant HILDREN'S MEDICAL CENTER CORPORATION			
1.	The applicant is hereby notified that the international sear have been established and are transmitted herewith.	rch report and the written opinion of the	ne International Searching Authority	
	Filing of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the cla	: ims of the international application (s	ee Rule 46):	
	When? The time limit for filing such amendments is search report.		-	
	Where? Directly to the International Bureau of WIPO 1211 Geneva 20, Switzerland, Facsimile No.	0, 34 chemin des Colombettes : +41 22 740 14 35		
	For more detailed instructions, see the notes on the a	ccompanying sheet.		
2.	The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.			
3.	With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:			
	the protest together with the decision thereon has bee request to forward the texts of both the protest and the	ne decision thereon to the designated C	Offices.	
	no decision has been made yet on the protest; the app	olicant will be notified as soon as a dec	cision is made.	
4.	Reminders			
	Shortly after the expiration of 18 months from the priority date Bureau. If the applicant wishes to avoid or postpone publicatio priority claim, must reach the International Bureau as provided in technical preparations for international publication.	n, a notice of withdrawal of the inte Rules 90bis.1 and 90bis.3, respective	ernational application, or of the ely, before the completion of the	
	The applicant may submit comments on an informal basis on International Bureau. The International Bureau will send a copy preliminary examination report has been or is to be established. before the expiration of 30 months from the priority date	of such comments to all decimated	Offices unless an intermed	

Within 19 months from the priority date, but only in respect of some designated Offices, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later); otherwise, the applicant must, within 20 months from the priority date, perform the prescribed acts for entry into the national phase before those designated Offices.

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19 months. See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's Guide, Volume II, National Chapters and the WIPO Internet site.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Authorized officer

Alana M. Harris

Telephone No. 571-272-1600

Facsimile No. (703) 305-3230 Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

• •			, PATENT COOPE	RATION TRE	A'r Y
From the	TIONAL SEARC	HING AUTH	ORITY		
INTERNATIONAL SEARCHING AUTHORITY To: DAVID S. RESNICK NIXON PEABODY LLP 100 SUMMER STREET BOSTON, MA 02110-2131		PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)			
				Date of mailing	2005
Applicant	Applicant's or agent's file reference			(day/month/year) FOR FURTHER	ACTION 01 JUN 2005
'	•			See paragraph 2 below	
701039-5 Internatio	nal application N	0.	International filing date	l (day/month/year)	Priority date (day/month/year)
PCT/US0	5/00714		10 January 2005 (10.01.:	2005)	09 January 2004 (09.01.2004)
		ication (IPC) o	or both national classificat		(0) tunuary 2001 (0).01.2001)
IPC(7): 436/63, 64, 174; 530/350, 385, 386, 387.1, 387.7, 387.9, 388.1 and US CI.: GO1N 1/00, 33/48; C07K 1/00, 14/00, 17/00; A61K ; C07K 1/00, 14/00, 16/00, 17/00 Applicant					
CHILDRI	EN'S MEDICAL	CENTER COI	RPORATION		
This opinion contains indications relating to the following items:					
	Box No. I Basis of the opinion				
	Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
			ntive step and industrial applicability		
Box No. IV Lack of unity of invention					
	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI Certain documents cited				
	Box No. VII Certain defects in the international application				
	Box No. VIII Certain observations on the international application				
2. FUR	THER ACTIO	N			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.					
IPEA of For	a written reply to	ogether, where or before the e	appropriate, with amends xpiration of 22 months fro	nents, before the exp	EA, the applicant is invited to submit to the piration of 3 months from the date of mailing whichever expires later.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US

Mail Stop PCT, Attn: ISA/US

Commissioner for Patents
P.O. Box 1450

Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Alana M. Harris Ph. 6

Telephone No. 571-272-1600

Form PCT/ISA/237 (cover sheet) (January 2004)

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 701039-54481	FOR FURTHER see Form PCT/ISA/220 ACTION as well as, where applicable, item 5 below.				
International application No. PCT/US05/00714	International filing date (day/month/year) 10 January 2005 (10.01.2005)	(Earliest) Priority Date (day/month/year) 09 January 2004 (09.01.2004)			
Applicant CHILDREN'S MEDICAL CENTER CORPORATION					
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.					
 Basis of the Report With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 					
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).					
b. With regard to any nucleotid	e and/or amino acid sequence disclosed in	n the international application, see Box No. I.			
2. Certain claims were found t	unsearchable (See Box No. II)				
3. Unity of invention is lacking	g (See Box No. III)				
4. With regard to the title,					
the text is approved as submi	• • •				
the text has been established	by this Authority to read as follows:				
5. With regard to the abstract,					
the text is approved as submit	tted by the applicant.				
the text has been established, may, within one month from	according to Rule 38.2(b), by this Authorithe date of mailing of this international sear	ty as it appears in Box No. IV. The applicant rch report, submit comments to this Authority.			
6. With regard to the drawings,a. the figure of the drawings to be published with the abstract is Figure No					
as suggested by the a	pplicant.				
as selected by this A	uthority, because the applicant failed to sug	ggest a figure.			
as selected by this A	thority, because this figure better characte	rizes the invention.			
b. none of the figures is to be published with the abstract.					
Form PCT/IS A /210 (first sheet) (January 200)	1)				

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/00714

A. CLASSIFICATION OF SUBJECT MATTER IPC(7): 436/63, 64, 174; 530/350, 385, 386, 387.1, 38	37.7, 387.9, 38 8.1	
US CL: GO1N 1/00, 33/48; C07K 1/00, 14/00, 17/00; According to International Patent Classification (IPC) or to both n	A61K; C07K 1/00, 14/00, 16/00, 17/00	
B. FIELDS SEARCHED	iational classification and IFC	
Minimum documentation searched (classification system followed U.S.: GO1N 1/00, 33/48; C07K 1/00, 14/00, 17/00; A61K;		
Documentation searched other than minimum documentation to th	ne extent that such documents are included in	n the fields searched
Electronic data base consulted during the international search (nan Medline	ne of data base and, where practicable, searc	h terms used)
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category * Citation of document, with indication, where	appropriate, of the relevant passages	Relevant to claim No.
PX ROY R. et al. ADAM 12 cleaves extracellular matrix status and stage. The Journal of Biological Chemistry pages 51323-51330.	rix proteins and correlates with cancer	1-16
Further documents are listed in the continuation of Box C. Special categories of cited documents:	See patent family annex.	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the inte date and not in conflict with the applic principle or theory underlying the inve	ation but cited to understand the
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the considered novel or cannot be considered when the document is taken alone	claimed invention cannot be red to involve an inventive step
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means 	"Y" document of particular relevance; the c considered to involve an inventive step combined with one or more other such	when the document is documents, such combination
"P" document published prior to the international filing date but later than the	being obvious to a person skilled in the "&" document member of the same patent if	
priority date claimed		•
Date of the actual completion of the international search	Date of mailing of the international searc	h report
10 May 2005 (10.05.2005) Name and mailing address of the ISA/US	Authorized officer	T J N SARD
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230 Form PCT/ISA/210 (second sheet) (January 2004)	Alana M. Harris, Ph.D. Telephone No. 571-272-1600	Jackson

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/00714

Box No	o. I Basis of this opinion		
1. With r was fi	egard to the language, this opinion has been established on the basis of the international application in the language in which it led, unless otherwise indicated under this item.		
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).		
2. With r invent	egard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed ion, this opinion has been established on the basis of:		
a.	type of material		
	a sequence listing		
	table(s) related to the sequence listing		
ъ.	format of material		
	in written format		
	in computer readable form		
c.	time of filing/furnishing		
	contained in international application as filed.		
	filed together with the international application in computer readable form.		
	furnished subsequently to this Authority for the purposes of search.		
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.		
4. Additional comments:			
•			
n cm	SA/227(Pov.No. D. (January 2004)		

Form PCT/ISA/237(Box No. I) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (January 2004)

International application No. PCT/US05/00714

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement 1. Statement Claims 17-19 Novelty (N) Claims 1-16 Claims NONE Inventive step (IS) _YES Claims 1-19 NO Claims 1-19 Industrial applicability (IA) YES Claims NONE NO 2. Citations and explanations: Claims 1-16 lack novelty under PCT Article 33(2) as being anticipated by Roy et al. (The Journal of Biological Chemistry 279(49): 51323-51330, December 3, 2004). Roy teaches the detection of urinary ADAM 12 in samples from breast cancer patients and controls analyzed by immunoblot, see abstract. ADAM 12 protein levels were higher in urine from breast cancer patients than in control urine. Median levels of ADAM 12 in urine significantly increases with disease progression, see page 51324, column 1, first paragraph; bridging paragraph of pages 51325 and 51326; page 51329, column 2, first two sentences of last paragraph. Western blot analysis was conducted using labeled proteins and chemiluminescence, page 51324, column 2, Western...section. Claims 17-19 lack an inventive step under PCT Article 33(3) as being obvious over Claims 1-16 lack novelty under PCT Article 33(2) as being anticipated by Roy et al. (The Journal of Biological Chemistry 279(49): 51323-51330, December 3, 2004). The teachings of Roy are presented above. Although Roy et al. does not teach a kit for detecting ADAM 12 in a urine sample comprising a container, at least one antibody and directions for use a scientist would have been inclined to package these components, as well as other reagents that would aid in cancer diagnosis for convenience.